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Titles of Most Frequently Occurring Classifications of Patents Returned  
From A Search of 09986280 on June 05, 2003

57 415/115 (28 OR, 29 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/115 WITH PASSAGE IN BLADE, VANE, SHAFT OR ROTARY  
DISTRIBUTOR COMMUNICATING WITH WORKING FLUID

35 416/97R (24 OR, 11 XR)

Class 416 : FLUID REACTION SURFACES

416/95 WITH HEATING, COOLING OR THERMAL INSULATION  
MEANS

416/96R .Changing state mass within or fluid flow  
through working member or carrier

416/97R ..Flow exhausted to working fluid

28 415/116 (9 OR, 19 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/116 WITH DIVERSELY ORIENTED INLET OR ADDITIONAL  
INLET FOR DIVERSE FLUID (E.G., HEATING, COOLING OR MIXED  
WORKING FLUID, ETC.)

11 415/178 (1 OR, 10 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/177 INCLUDING HEAT INSULATION OR EXCHANGE MEANS  
(E.G., FINS, LAGGING, ETC.)

415/178 .Working fluid on at least one side of heat  
exchange wall

10 416/96A (4 OR, 6 XR)

Class 416 : FLUID REACTION SURFACES

416/95 WITH HEATING, COOLING OR THERMAL INSULATION  
MEANS

416/96R .Changing state mass within or fluid flow  
through working member or carrier

416/96A ..Blade inserts

10 416/96R (1 OR, 9 XR)

Class 416 : FLUID REACTION SURFACES

416/95 WITH HEATING, COOLING OR THERMAL INSULATION  
MEANS

416/96R .Changing state mass within or fluid flow  
through working member or carrier

6 29/889.721 (0 OR, 6 XR)

Class 029 : METAL WORKING

29/592 METHOD OF MECHANICAL MANUFACTURE

29/889 .Impeller making

29/889.7 ..Blade making

29/889.72 ...Hollow blade

29/889.721 ....With cooling passage

6 415/175 (1 OR, 5 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/175 INCLUDING ADDITIONAL MEANS CAUSING OR  
CONTROLLING FLUID FLOW FOR HEAT EXCHANGING,

LUBRICATING OR

SEALING

5 415/114 (2 OR, 3 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/114 WITH CHANGING STATE CONFINED HEAT EXCHANGE MASS

5 415/173.1 (1 OR, 4 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/170.1 BEARING, SEAL, OR LINER BETWEEN RUNNER PORTION  
AND STATIC PART

415/173.1 .Between blade edge and static part

5 415/209.2 (0 OR, 5 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/182.1 WORKING FLUID PASSAGE OR DISTRIBUTING MEANS  
ASSOCIATED WITH RUNNER (E.G., CASING, ETC.)

415/208.1 .Vane or deflector

415/208.2 ..Plural and arcuately or circularly arranged  
in radial plane around runner axis

415/209.2 ...Having means for mounting diaphragm or  
plural vane holder to casing

4 415/209.3 (0 OR, 4 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/182.1 WORKING FLUID PASSAGE OR DISTRIBUTING MEANS  
ASSOCIATED WITH RUNNER (E.G., CASING, ETC.)

415/208.1 .Vane or deflector

415/208.2 ..Plural and arcuately or circularly arranged  
in radial plane around runner axis

415/209.3 ...Having specific vane mounting means

4 416/95 (0 OR, 4 XR)

Class 416 : FLUID REACTION SURFACES

416/95 WITH HEATING, COOLING OR THERMAL INSULATION  
MEANS

3 60/226.1 (1 OR, 2 XR)

Class 060 : POWER PLANTS

60/200.1 REACTION MOTOR (E.G., MOTIVE FLUID GENERATOR  
AND REACTION NOZZLE, ETC.)

60/224 .Interrelated reaction motors

60/226.1 ..Air and diverse fluid discharge from separate  
discharge outlets (e.g., fan jet, etc.)

3 60/726 (0 OR, 3 XR)

Class 060 : POWER PLANTS

60/39.01 COMBUSTION PRODUCTS USED AS MOTIVE FLUID

60/722 .Combustion products generator

60/726 ..With means to pressurize oxidizer for  
combustion or other purposes

3 60/782 (3 OR, 0 XR)

Class 060 : POWER PLANTS

60/39.01 COMBUSTION PRODUCTS USED AS MOTIVE FLUID

60/772 .Process

60/782 ..Having bleed air to cool or heat motor or  
component thereof (e.g., active clearance control, etc.)

3 60/806 (2 OR, 1 XR)

Class 060 : POWER PLANTS

60/39.01 COMBUSTION PRODUCTS USED AS MOTIVE FLUID

60/722 .Combustion products generator

60/805 ..Having turbine

60/806 ...And cooling

3 415/136 (1 OR, 2 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/134 INCLUDING THERMAL EXPANSION JOINT

415/136 .Radially sliding

3 415/138 (0 OR, 3 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/134 INCLUDING THERMAL EXPANSION JOINT

415/136 .Radially sliding

415/138 ..And axial or circumferential expansion

3 415/173.7 (1 OR, 2 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/170.1 BEARING, SEAL, OR LINER BETWEEN RUNNER PORTION  
AND STATIC PART

415/173.7 .Between axial flow runner and vane or vane  
diaphragm structure

3 415/176 (0 OR, 3 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/175 INCLUDING ADDITIONAL MEANS CAUSING OR  
CONTROLLING FLUID FLOW FOR HEAT EXCHANGING,

LUBRICATING OR

SEALING

415/176 .Means subjected to or is working fluid

3 415/177 (1 OR, 2 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/177 INCLUDING HEAT INSULATION OR EXCHANGE MEANS  
(E.G., FINS, LAGGING, ETC.)

3 415/180 (0 OR, 3 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/177 INCLUDING HEAT INSULATION OR EXCHANGE MEANS  
(E.G., FINS, LAGGING, ETC.)

415/180 .Cooling fluid contacts shaft, seal or bearing

3 415/191 (0 OR, 3 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/182.1 WORKING FLUID PASSAGE OR DISTRIBUTING MEANS  
ASSOCIATED WITH RUNNER (E.G., CASING, ETC.)

415/183 .Plural distributing means immediately upstream  
of runner

415/185 ..Arcuately or circularly arranged around  
runner axis

415/191 ...Vanes

3 416/97A (1 OR, 2 XR)

Class 416 : FLUID REACTION SURFACES

416/95 WITH HEATING, COOLING OR THERMAL INSULATION  
MEANS

416/96R .Changing state mass within or fluid flow  
through working member or carrier

416/97R ..Flow exhausted to working fluid

416/97A ...Laminated or porous skin

2 29/889.722 (0 OR, 2 XR)

Class 029 : METAL WORKING

29/592 METHOD OF MECHANICAL MANUFACTURE

29/889 .Impeller making

29/889.7 ..Blade making

29/889.72 ...Hollow blade

29/889.721 ....With cooling passage

29/889.722 .....Passage contains tubular insert

2 60/39.83 (1 OR, 1 XR)

Class 060 : POWER PLANTS

60/39.01 COMBUSTION PRODUCTS USED AS MOTIVE FLUID

60/39.83 .Cooling of auxiliary components

2 60/606 (2 OR, 0 XR)

Class 060 : POWER PLANTS

60/597 FLUID MOTOR MEANS DRIVEN BY WASTE HEAT OR BY  
EXHAUST ENERGY FROM INTERNAL COMBUSTION ENGINE

60/598 .With supercharging means for engine

60/605.1 ..Supercharging means driven by engine exhaust  
actuated motor

60/606 ...With means to provide additional motive  
fluid for motor

2 60/785 (0 OR, 2 XR)

Class 060 : POWER PLANTS

60/39.01 COMBUSTION PRODUCTS USED AS MOTIVE FLUID

60/784 .For nominal other than power plant output  
feature

60/785 ..Air bleed

2 123/41.73 (0 OR, 2 XR)

Class 123 : INTERNAL-COMBUSTION ENGINES

123/41.01 COOLING

123/41.72 .With jacketed head and/or cylinder

123/41.73 ..Jet or spray within jacket

2 123/41.85 (0 OR, 2 XR)

Class 123 : INTERNAL-COMBUSTION ENGINES

123/41.01 COOLING

123/41.85 .Valve seats or guides

2 415/121.2 (0 OR, 2 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/121.2 WITH SEPARATING MEANS OR GUARD FOR SOLID MATTER

IN WORKING FLUID (E.G., DEBRIS, ETC.)

2 415/139 (1 OR, 1 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/134 INCLUDING THERMAL EXPANSION JOINT

415/139 .Circumferentially spaced nozzle or stator  
segments

2 415/170.1 (1 OR, 1 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/170.1 BEARING, SEAL, OR LINER BETWEEN RUNNER PORTION  
AND STATIC PART

2 415/173.4 (0 OR, 2 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/170.1 BEARING, SEAL, OR LINER BETWEEN RUNNER PORTION  
AND STATIC PART

415/173.1 .Between blade edge and static part

415/173.4 ..Erodable or permanently deformable

2 415/200 (0 OR, 2 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/182.1 WORKING FLUID PASSAGE OR DISTRIBUTING MEANS  
ASSOCIATED WITH RUNNER (E.G., CASING, ETC.)

415/200 .Specific casing or vane material

2 415/209.4 (0 OR, 2 XR)

Class 415 : ROTARY KINETIC FLUID MOTORS OR PUMPS

415/182.1 WORKING FLUID PASSAGE OR DISTRIBUTING MEANS  
ASSOCIATED WITH RUNNER (E.G., CASING, ETC.)

415/208.1 .Vane or deflector

415/208.2 ..Plural and arcuately or circularly arranged  
in radial plane around runner axis

415/209.3 ...Having specific vane mounting means

415/209.4 ....Vane fixed between radially separate  
surfaces

2 416/174 (1 OR, 1 XR)

Class 416 : FLUID REACTION SURFACES

416/174 HAVING LUBRICATING, SEALING, PACKING OR  
SPECIFIC BEARING MEANS BETWEEN IMPELLER OR SHAFT AND  
STATIC  
PART